



1. Document Identifier: E911-C001-MEM-WRL-0241A-VIRGINIA

#### 1.1 Revisions

1/17/2002: Modified labels for Latitude, Longitude, Altitude, Confidence Percentage, and Company ID to conform with NENA 02-010 Exhibit 23, Format for Data Exchange Between ALI Data Base and PSAP Controller Equipment. Changed narrative references to these labels.

Modified character mapping files, PDI-WRL0242A, PDI-WRL0244A, PDI-WRL0246A to reflect revised labels.

**Special Note:** During 2002 Verizon will migrate many of the fGTE PSAPS to the fBA 911 data base system. Therefore consideration should be given to implementing a phase 2 screen to conform to the recommended formats specified in the character mapping files PDI-WRL0242A (with labels) and PDI-WRL0243 (without labels).

#### 2.0 Purpose

In preparation for Wireless Phase 2 implementations Verizon has developed standard PSAP screen formats for the state of Virginia. The purpose of this document is to communicate the changes that have been made. In anticipation of various PSAP preferences and CPE capabilities Verizon is proposing four screen formats. Two formats will contain labels before the various data fields. One format is designed for use by those PSAPS that are serviced from the former Bell Atlantic ALISA systems, and the other is designed for use by those PSAPS serviced from the former GTE ALISA systems. The third and fourth formats will not contain labels and are also designed for the former Bell Atlantic and GTE ALISA systems.

#### 2.1 Approach

Consideration was given to the possible enhancements to wireless call delivery. In particular the screens were designed to provide space for future delivery of Speed, Direction, Altitude and Altitude Confidence. Space was also provided for specific fields for Cell and Sector. Currently the ALISA systems do not contain field areas for the population of Cell and Sector. Therefore Cell and Sector information is typically found in the street address, supplemental data or location fields. It is possible that future data base reorganization could provide for defined fields for Cell and Sector. Although space has been reserved, the only field that will appear in the current screen implementation will be the Altitude field or elevation field.

#### 2.2 Approach Refinements

The labels selected for the PSAP screen correspond to those specified in the NENA Version 4 Format for Data Exchange. This approach provided three character position labels. Character mapping is based on 16 lines and 32 columns screen format.

The former BA and former GTE PSAP screen formats differ only in the amount of location or supplemental data that is displayed. The former GTE database uses two fields for storing location data for a total of 49 characters. The former BA provides 64 characters. Therefore there are slight differences in the character mapping.

#### 2.3 Constraints

At this time it is not clear if the Mobile Positioning Center will return + sign for northern latitudes.

#### 2.4 References

The below files provide details of the screen character mapping

- Document E911-C001-PDI-WRL-0242A

- Provides character mapping for screen containing labels.
- Document E911-C001-PDI-WRL-0243
  - Provides character mapping for screen without labels
- Document E911-C001-PDI-WRL-0244A
  - Provides character mapping for screen containing labels for former GTE PSAPS serviced by Tampa and Ft Wayne ALISA systems.
- Document E911-C001-PDI-WRL-0245
  - Provides character mapping for screen without labels for former GTE PSAPS services by Tampa and Ft Wayne ALISA systems.
- Document E911-C001-PDI-WRL-0246A
  - Provides character mapping of fields that maybe added in the future.
  - Reference this document if interested in where Speed, Direction, Altitude Confidence, Cell and Sector fields will appear in the future.

### 3.0 Screen changes

The following indicate what changes have been made to the screen format.

- .1 NPA brackets
- .2 Seconds added to time
- .3 Responding Node and Position
  - Reduced from 5 to 3 characters.
- .4 Warning Line
  - Added to display various warning messages such as "WIRELESS LAT/LONG UNAVAILABLE"
- .5 Name moved before street address
- .6 Supplemental/ Location data
  - Field expanded from 27 characters to 64 to increase display of location data.
  - For those PSAPS serviced from Tampa and Ft Wayne ALISA pair this field will total 49 characters.
- .7 Main telephone number
  - Will display landline pilot/main telephone number
  - Will be used to display pANI for wireless calls
- .8 Labels added
  - LAT - latitude
  - LON - longitude
  - ELV - altitude
  - COF - location confidence expressed in meters.
    - Also known as E2 interface uncertainty field
  - COP - confidence expressed in percentage
  - CPF - Company ID
    - This is the company ID of the wireline or wireless service provider.
  - ESN - Emergency Service Number
  - MTN - Main telephone Number
- .9 Future Labels
  - CEL - Cell identifier
  - SEC - Sector identifier
  - HDG - heading or direction
  - SPD - Speed
  - ACF - altitude confidence

